

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
INSPECTION REPORT

USEPA Number: ILD095792859

IEPA Number: 1438050006

Facility Name: Sherex Chemical Company, Inc.

Street: P.O. Box 9, Rte 24

City: Mapleton

County: Peoria

Telephone: 309/697-6220

State: IL Zip Code: 61547

Type of Facility: ☒ Notified As: Gen Storage Regulated As: Gen Storage
LDF? yes ☐ no ☒ HPV? yes ☐ no ☒ 90 Day Follow-up Required? yes ☐ no ☒

Region: 3 Date of Inspection: 2/5/88

From: 10:30 AM to 5:30 PM

Weather (LDF Only): ☀

2/8/88

10:00 AM to 12:30 PM

2/19/88

1:00 PM to 1:40 PM

Type of Inspection

ISS: ☒ Sampling: ☐ Citizen Complaint: ☐ Closed: ☐ Withdrawal: ☐
Record Review: ☐ Follow-up to Inspection of ☐ Other: ☐

Non Regulated Status

Small Quant. Gen.: ☐ Claimed Nonhandler: ☐ Other (Specify in narrative): ☐

Notified As/Regulated As Matrix Number: E Key Letter: 39

Notification date, 8/18/80, from initial ☒ or subsequent ☐ notification.

Part A date, 4/13/82, from initial ☐ or amended ☒ Part A:

Part B permit application submitted? yes ☐ no ☒

Has the firm been referred to: USEPA? yes ☐ no ☒; IAG? yes ☐ no ☒; Count:

States Attorney? yes ☐ no ☒ Date of Referral to USEPA:

IAG: , County States Attorney:

Federal Court Order Issued: No State Court Order Issued: No

(CACO)-USEPA COMPLIANCE ORDER ISSUED: No

(CAFO)-USEPA FINAL Order Issued: No Illinois PCB Order Issued: No

TSD Facility Activity Summary

Activity (By Process Code)	On Pt A	Activity Conducted Prior to 1980	Was Activity Ever Done	Closed	Being Done at Time of Inspection	Exempt From Regulation per 35 IAC, Section:	On Annual Report For 853632	See Comm 02.1 3.1
5001	yes	5001	yes	No	yes	No	yes yes	

EPA Region 5 Records Ctr.



384005

Operator: Shorex Chemical Company Telephone #: 309/697-6220

Street: P.O. Box 9, Rte 24

City: Mapleton State: IL Zip Code: 61547

Owner: Shorex Chemical Company Telephone #: 614/764-6500

Street: P.O. Box 646

City: Dublin State: Ohio Zip Code: 43017

Person Interviewed

Title

Telephone #

<u>Dale Kumpf</u>	<u>Administration Mgr.</u>	<u>309/697-6220</u>
<u>Serin R20</u>	<u>Plant Env. Engr.</u>	<u>309/697-6220</u>
<u>Charles Anderson</u>	<u>Env. Engr.</u>	<u>614/766-654</u>

Inspection Participants

Agency/Title

Telephone #

<u>James Jones</u>	<u>IEPA/EP5-II</u>	<u>309/693-5462</u>
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Prepared By

Agency/Title

Telephone #

<u>James Jones</u>	<u>IEPA/EP5-II</u>	<u>309/693-5462</u>
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Summary of Apparent Violations

Area	Class	Section
Other	II	725.115
		725.116
		725.131
		725.137
		725.152

Area	Class	Section
Other	II	725.153
		725.173
	I	722.134
Other	I	725.273
	II	725.155

Area	Class	Section
Other	II	722.141

WASTE DISPOSITION FORM

Facility Name:

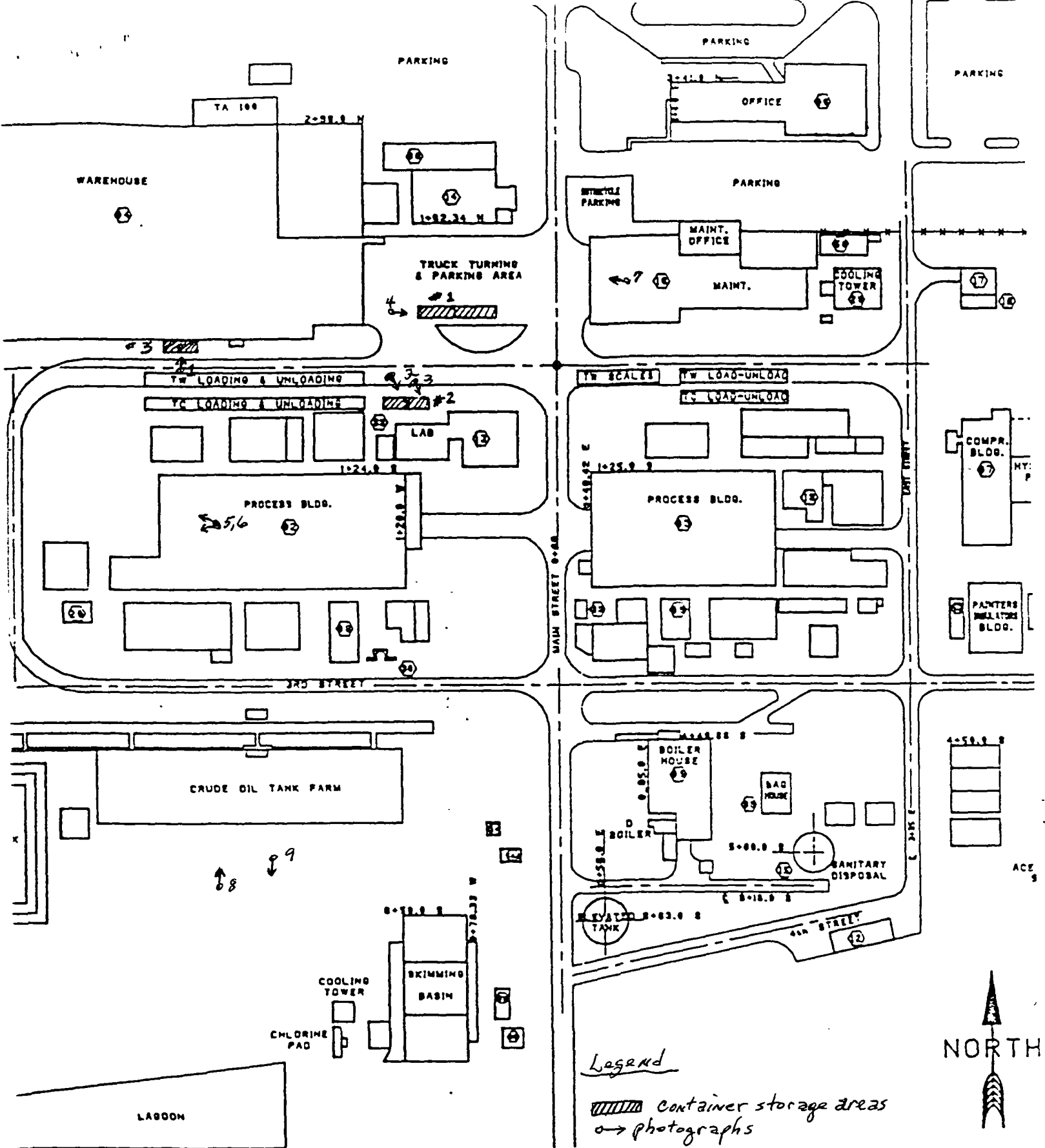
Facility Name: Sherex Chemical Company, Inc USEPA ID: ILD095792859 TEPA ID: 143 805 0006

USEPA #: ILD095792859 IEPA #: 143 805 0006

Waste Name (Include haz & non-haz special & waste for which no determination has been made)	Generating Process (For waste gen. on site. N/A for TSD)	Date of Last Analysis	USEPA Haz Waste #	On 8700 -12 *	On 3510 -3 *	On Rpt 85 *	Annual For 86 *	Annual For 87 *	Amount On Site	Rate of Generation	Last Manifested Shipment	Disposition
Waste Petroleum Naphtha	Parts cleaning	See Comment 1	D001		Yes	No	No	*	None	40 gals. per mo.	10/28/87	Safety-Kleen Corp. (for rectification) ILD 093862811
Xylene, Acetone and Ethyl Acetate	Lab wastes	12/10/86	F003			No	No	*	4-55gal drums	1/2-55gal. drums per mo.	10/2/87	Solvent Resource Recovery OHD 093945293
Tallow tank bottoms	Splitting	5/14/86	D006			No	No	*	None	60 cu. yds	2/16/87	Pooria Disposal Ldfl. ILD 000805812
Cadmium Contaminated Soil	Ground Site Clean-up	9/30/86	D006			No	No	*	None	One-time generation	8/17/87	"Same as Above" Pooria Disposal Ldfl.
Spent Copper/Cadmium catalyst	HPA Reactor	3/24/87	D006			Yes	Yes	*	approx 75-55gal drums	75-55gal. per mo.	12/2/87	ILD 000805812
Methanol, toluene Pyridine and Isobutyl	Lab wastes	12/10/86	F005					*	included with above waste	included with above waste	10/2/87	Solvent Resource Recovery OHD 093945293
Acrylonitrile Contaminated Soil	Acrylonitrile spill 8/19/86	IEPA analysis 3/23/87	U009		Yes	No	No		None	One-time generation	9/23/86	Pooria Disposal Ldfl. ILD 000805812
Acrylonitrile Contaminated Water	Acrylonitrile spill 8/19/86	8/28/86	U009		Yes		No		None	One-time generation	11/10/86	SEA Chemicals vcs. ILD 000672121
<p>*-indicates that the wastes were generated in 1987. However, at the time of the inspection the facility's 1987 annual report had not been prepared.</p>												
<p>comment # 1 - This facility's waste determination is based on MSD sheets. Since the waste is not stored and is handled by Safety-Kleen Corp, a waste analysis is not required by Sherex.</p>												

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Disposal Area(s)



SHEREX

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DESCRIPTION
REVISIONS

APPR.

NARRATIVE

On February 5, 8, and 19, 1988, an ISS inspection was conducted by this author at Sherex Chemical Company. Officials participating in the inspections from Sherex were Dale Kumpf, Administration Manager, Serin Rao, Plant Environmental Engineer and Charles Anderson, Environmental Engineer from Sherex's corporate office in Dublin, Ohio. Sherex Chemical Company is a producer of fatty acids and derivatives such as fatty alcohols, amines and quaternaries.

According to Sherex officials, Sherex continues to generate three (3) continuous hazardous wastes from their processes. A spent copper/cadmium catalyst; a tallow tank bottom waste, which are regulated, and an alcohol pitch which is exempt from regulations. The above wastes are generated as follows:

1) The copper cadmium waste is generated from cleaning process materials from the high power alcohol (HPA) reactor with nitric acid. The acid, which contains the dissolved metals, is reacted with sodium hydroxide to precipitate the metals. Rain/wash waters from this multi-phase process are filtered in the same filtration system to attain maximum metal removal. The filter cake from this process is E.P. Toxic for cadmium (D006). The waste is stored on site and is ultimately manifested to Peoria Disposal, LPC #143 812 0003, for disposal.

2) The tallow tank bottoms are generated from the occasional cleaning out of the processing tanks.

3) The alcohol pitch is a by-product from the distillation process in the production of fabric softeners. The alcohol pitch generated from this process continues to be burned in the boiler for energy recovery. This material is hazardous only because it is E.P. Toxic for cadmium (D006). Since it is hazardous for one characteristic (D006) and is not stored over 90 days before use, it is exempt from regulation pursuant to Section 726.136.

Sherex indicated that in addition to the above wastes, they generated two (2) non-process wastes in 1987. The wastes generated are as follows:

4) Cadmium contaminated soil - generated from cleaning apparent cadmium spills around the HPA reactor on the outside premise of the site.

5) Lab wastes - spent samples generated by quality control process. (These wastes were recycled back into the quaternary reactor in the phase 3 section of building 03 from 1984 to 1986).

Also, in 1986 Sherex generated another non-process waste. The waste generated were as follows:

6) Acrylonitrile contaminated soil from the August 19, 1986, acrylonitrile spill.

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7) Acrylonitrile contaminated water from the August 19, 1986, acrylonitrile spill.

During the inspection and tour of the facility, the following apparent violations of 35 Ill. Adm. Code, Subtitle G were observed:

Section 722.134(c)(1)(a) - A drum of spent copper/cadmium catalyst was observed open during storage in the satellite accumulation area in process building #2. This is an apparent violation of the requirement of Section 725.273(a).

Section 725.115(d) - Facility's inspection log did not reflect the time that the inspections were conducted as required by this section. According to Sherex, they were unaware of this requirement.

Section 725.116(d)(4) - Sherex was unable to provide records that document that the training required under paragraphs (a), (b) and (c) of this section has been given to and completed by facility personnel.

Section 725.131 - Sherex failed to operate their facility in a manner that would not threaten human health or the environment. A drum of spent copper/cadmium catalyst was observed open during storage in the satellite accumulation area in process building #2.

Section 725.137(a)(4) - Sherex has not made the required arrangements with local hospitals.

Section 722.141(a) - Sherex failed to report the acrylonitrile contaminated water from the 1986 clean-up on the 1986 annual report as required.

Section 725.152(c) - Sherex's contingency plan does not describe the arrangements that must be agreed to by local hospitals.

Section 725.153(b) - Copies of the contingency plan have not been submitted to local hospitals according to Sherex officials.

Section 725.173(b)(1) - Sherex's operating record does not reflect the date that waste goes into storage.

Section 725.173(b)(5) - Sherex's operating record does not contain the required inspection records.

Section 725.273(a) - A drum of spent copper/cadmium catalyst was observed open during storage in the satellite accumulation area in process building #2.

A CIL will be sent citing the aforementioned apparent violations.

JJJ/lb

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TECHNOLPC

DATE: September 4, 1986
TO: Division Files
FROM: John Tripses *JT*
SUBJECT: LPC #143 805 0006 - Peoria County
Mapleton/Sherex
ILD #095792859
~~RCRA General~~ **FOS**

The purpose of this visit was to take soil samples to verify the cleanup of an acrylonitrile spill. The spill occurred August 20, 1986. Three hundred pounds was spilled.

Dennis Jurewicz, Environmental Affairs Manager, was interviewed. He said that 500 yards of soil had been removed by Peoria Disposal Response on August 27, August 28, August 29, September 2 and September 3. In addition, 102 barrels of water contaminated with acrylonitrile had been filled. The water was pumped out of low-lying areas around the tanks. The drummed material will be shipped to Chemical Waste Management. The soil went to the PDC Landfill in Peoria. Sherex sampled the soil in the spill area after the cleanup and the results showed 0.1 to 2 ppb. The cleanup standard is 1 ppm.

Four soil samples were taken. (See attached lab sheets.) One sample from each side of the concrete retaining wall. Samples were split with Mr. Jurewicz. The samples were shipped by UPS to the IEPA Springfield Lab for analyses.

JT/pm

cc: Peoria LPC Files

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OCT 02 1986

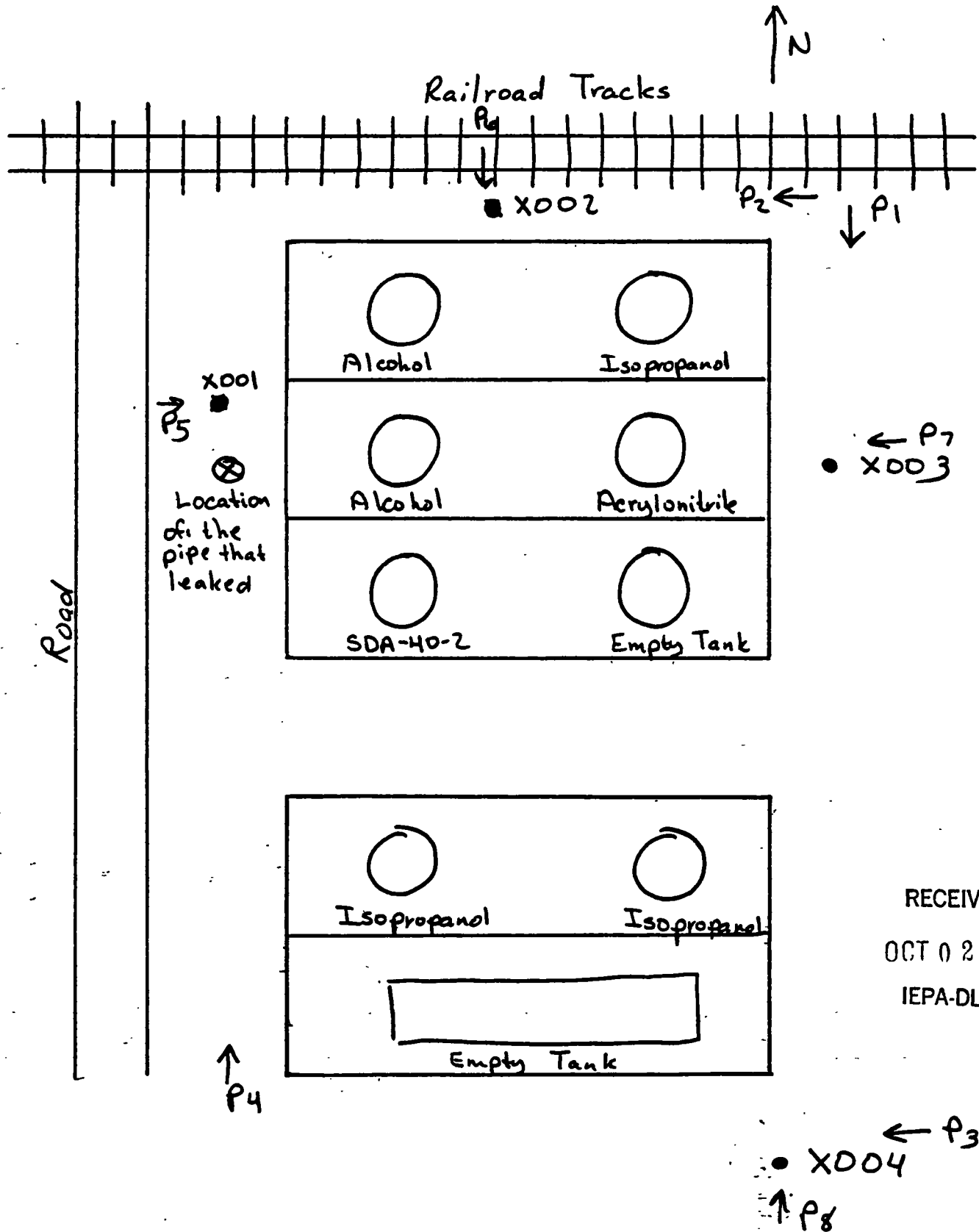
FILED

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

IL 532 0357
ADM 39
054-002

Subject Sherex
Data Spill Area
Reviewed by _____

Date 9/20/86



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